QC ABSTRACT

NAME OF WORK: Improvements to Roads and Drains at Devappa Layout and surrounding area in Ward No.11 Kuvempunagara.

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Block(400*200*200)	BLOCK DENSITY	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		DIMENSION ANALYSIS	One Test		1	1
		COMPRESSIVE STRENGTH	One Test		1	1
7	Kerb	Core Compressive strength	One Test		1	1
		Corrected Cylinder Compressive strength	One Test		1	1
		Equivalent Cube Compressive strength	One Test		1	1
8	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	

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9	Precast (250mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
10	PCC M15	Compressive Strength(7days and 28days)	5 set /51-100 Cum	52.25	10	10
11	Culvert Concrete M20	Compressive Strength(7days and 28days)	2 set /6-15 Cum	6.73	4	4
12	Cement Concrete Pavemet (M30)	Compressive Strength(7days and 28days)	6 set /100-150 Cum	145.66	12	12

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2020-01-29-76** **Date: 15-11-19**
Project Name	:	Improvements to Roads and Drains at Devappa Layout and surrounding area in Ward No.11 Kuvempunagara.
Agency	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010
Customer's Reference	:	BBMP/EE/BTP/WO/145/2019-20
Date of Receipt	:	11-11-19
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	12-11-19
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.95	–
2	Finess by Air permeablity method (m^2/kg,Min)	285.4	225m^2/kg, Min
3	Density (gm/cc)	3.12	–
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	145 minutes	Not less than 30 minutes
6	Final Setting time	240 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

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Authorized Signatory
Quality Manager

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2020-01-29-76** **Date: 10-12-19**
Project Name	:	Improvements to Roads and Drains at Devappa Layout and surrounding area in Ward No.11 Kuvempunagara.
Agency	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010
Customer's Reference	:	BBMP/EE/BTP/WO/145/2019-20
Date of Receipt	:	11-11-19
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	12-11-19
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2020-01-29-76** **Date: 15-11-19**
Project Name	:	Improvements to Roads and Drains at Devappa Layout and surrounding area in Ward No.11 Kuvempunagara.
Agency	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010
Customer's Reference	:	BBMP/EE/BTP/WO/145/2019-20
Date of Receipt	:	11-11-19
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	11-11-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	244	244	1.6	98.4	90-100
3	20 mm	5432	5676	37.8	62.2	30-70
4	10 mm	4332	10008	66.7	33.3	10-35
5	4.75 mm	4654	14662	97.7	2.3	0-5
6	Pan	338	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2020-01-29-76** **Date: 15-11-19**

PHYSICAL PROPERTIES

SLno	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	**12.4**	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	**11.8**	
3	Specific Gravity	**2.68**	_
4	Bulk Density(Loose) (Kg/l)	**1.48**	_
5	Bulk Density(Compacted) (Kg/l)	**1.52**	_
6	Water Absorption(%)	**0.22**	_

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2020-01-29-76** **Date: 13-11-19**
Project Name	:	Improvements to Roads and Drains at Devappa Layout and surrounding area in Ward No.11 Kuvempunagara.
Agency	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010
Customer Reference	:	BBMP/EE/BTP/WO/145/2019-20
Date of Receipt	:	11-11-19
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	11-11-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : **5000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	245	245	4.9	95.1	90-100
3	10 mm	2560	2805	56.1	43.9	25-55
4	4.75 mm	2033	4838	96.8	3.2	0-10
5	Pan	162	5000	100	0	_

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2020-01-29-76 Date: 13-11-19

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.6	
3	Specific Gravity	2.66	_
4	Bulk Density(Loose) (Kg/l)	1.54	_
5	Bulk Density(Compacted) (Kg/l)	1.58	_
6	Water Absorption(%)	0.22	_
7	Aggregate crushing Value(%)	24.5	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.8	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2020-01-29-76 **Date: 13-11-19**

Project Name : Improvements to Roads and Drains at Devappa Layout and surrounding area in Ward No.11 Kuvempunagara.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/WO/145/2019-20

Date of Receipt : 11-11-19

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 11-11-19

Total weight taken : 1000 grams

Sl.No	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :**The tested Sample Conforms to Grading Zone II**

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TEST REPORT OF FINE AGGREGATE

ple ID : CP-2020-01-29-76 Date: 13-11-19

SICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	_
2	Specific Gravity	2.59	_
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST RESULTS OF STEEL

	:	**CP-2020-01-29-76** **Date: 18-11-19**
Name	:	Improvements to Roads and Drains at Devappa Layout and surrounding area in Ward No.11 Kuvempunagara.
	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010
Reference	:	BBMP/EE/BTP/WO/145/2019-20
Receipt	:	16-11-19
Type	:	Sunvik
to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
	:	16-11-19

Identification of sample	Grade of the sample	Diameter of the steel bar (mm)	Weight of the sample (kg/m)	Yield stress (N/mm2)	Tensile strength (N/mm2)	Elongation (%)	Bend test	Rebend test
Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory
Sunvik	Fe500	16	1.581	572	674	19.0%	Satisfactory	Satisfactory

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TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	CP-2020-01-29-76 **Date: 15-11-19**
Project Name	:	Improvements to Roads and Drains at Devappa Layout and surrounding area in Ward No.11 Kuvempunagara.
Agency	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010
Customer's Reference	:	BBMP/EE/BTP/WO/145/2019-20
Date of Receipt	:	11-11-19
Sample Type/Size	:	Solid concrete blocks size (400X200X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	12-11-19

BLOCK DENSITY:

Sl.No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	403	203	198	16198	32.175	1986.3	2019.4	Not less than 1800Kg/m^3
2	404	201	199	16160	32.073	1984.7		
3	404	198	198	15838	33.059	2087.3		

WATER ABSORPTION:

Sl.No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.91	32.25	4.89	4.25	Shall not be more than 10% by mass
2	33.57	32.14	4.28		
3	33.44	32.24	3.59		

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: CP-2020-01-29-76 Date: 15-11-19

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	402	200	200	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	403	200	200	
3	399	202	202	
4	400	199	200	
5	404	200	203	
6	402	202	201	
7	402	203	202	
8	402	201	202	
9	400	202	199	
10	404	200	200	
11	402	200	202	
12	399	201	199	
13	399	201	199	
14	402	201	202	
15	401	199	202	
16	401	202	199	
17	402	203	202	
18	404	203	203	
19	403	199	201	
20	401	203	201	
Average	**402**	**201**	**201**	

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: CP-2020-01-29-76 Date: 15-11-19

STRENGTH:

Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
Length	Breadth				
mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
400	200	79892	372.6	4.7	4.6
403	200	80674	388.3	4.8	
399	202	80542	371.9	4.6	
400	199	79786	369.6	4.6	
404	200	80572	364.4	4.5	
402	202	81096	374.1	4.6	
402	203	81566	384.7	4.7	
402	201	81001	367.3	4.5	

Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	Minimum average	Minimum Individual units.
	5.00 N/mm^2	4.00 N/mm^2
	4.00 N/mm^2	3.20 N/mm^2

pertain to the samples received and tested.
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Quality Manager

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TEST REPORT OF PRECAST COVER SLAB

: **CP-2020-01-29-76** **Date: 27-11-19**

: Improvements to Roads and Drains at Devappa Layout and surrounding area in Ward No.11 Kuvempunagara.

: Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

: BBMP/EE/BTP/WO/145/2019-20

: 23-11-19

: Precast Cover Slab 100mm

: IS: 516 - 1959 Methods of Tests for Strength of Concrete

: 23/11/2019

Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
	(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
Cover Slab-1	75.51	100.48	1.116	4477	80.9	18.1	16.8	21.0
Cover Slab-2	75.49	100.52	1.122	4475	82.3	18.4	17.1	21.4
Cover Slab-3	75.50	100.51	1.118	4476	81.5	18.2	16.9	21.2

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Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

: CP-2020-01-29-76

Date: 27-11-19

: Improvements to Roads and Drains at Devappa Layout and surrounding area in Ward No.11 Kuvempunagara.

: Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

: BBMP/EE/BTP/WO/145/2019-20

: 23-11-19

: Precast Cover Slab 250mm

: IS: 516 - 1959 Methods of Tests for Strength of Concrete

: 23/11/2019

Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
	(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
Cover Slab-1	200.51	250.48	3.116	31570	240.9	7.6	7.1	8.9
Cover Slab-2	200.49	250.52	3.122	31564	240.3	7.6	7.1	8.9
Cover Slab-3	200.50	250.51	3.118	31567	240.5	7.6	7.1	8.9

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE KERB STONE

: **CP-2020-01-29-76** **Date: 02-12-19**

: Improvements to Roads and Drains at Devappa Layout and surrounding area in Ward No.11 Kuvempunagara.

: Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

: BBMP/EE/BTP/WO/145/2019-20

: 28-11-19

: CC Kerb Stone/ 450*165*400mm

: IS: 516 - 1959 Methods of Tests for Strength of Concrete

: 28/11/2019

Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
	(mm)	(mm)	Kg	(Sq.mm)	(KN)	(N/mm2)	(N/mm2)	(N/mm2)
A	100.01	165.51	2.864	7854	142.1	18.1	18.1	22.6
B	100.03	165.49	2.793	7857	145.2	18.5	18.5	23.1
C	100.01	165.50	2.815	7854	145.1	18.5	18.5	23.1

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TEST REPORT OF CEMENT CONCRETE CUBES

: **CP-2020-01-29-76** **Date: 27/11/2019**

: Improvements to Roads and Drains at Devappa Layout and surrounding area in Ward No.11 Kuvempunagara.

: Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

: BBMP/EE/BTP/WO/145/2019-20

: 22-11-19

: PCC

: 150X150X150 mm

: M15 / 7 Days Compressive Strength

: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 27/11/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
PCC	M15	20/11/2019	27/11/2019	149.27 X 151.59 X 149.51	22627	**8.445**	280.3	12.4	12.4
PCC	M15	20/11/2019	27/11/2019	149.36 X 149.28 X 149.44	22295	**8.892**	271.6	12.2	
PCC	M15	20/11/2019	27/11/2019	149.28 X 151.13 X 149.46	22561	**8.031**	287.4	12.7	

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Quality Manager

****End of Report****

AEE (NRP) SD

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

: **CP-2020-01-29-76** **Date: 18/12/2019**

: Improvements to Roads and Drains at Devappa Layout and surrounding area in Ward No.11 Kuvempunagara.

: Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

: BBMP/EE/BTP/WO/145/2019-20

: 22-11-19

: PCC

: 150X150X150 mm

: M15 / 28 Days Compressive Strength

: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 18/12/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
PCC	M15	20/11/2019	18/12/2019	151.35 X 151.38 X 151.88	22912	8.629	389.5	17.0	17.3
PCC	M15	20/11/2019	18/12/2019	151.55 X 151.03 X 149.63	22887	8.669	393.1	17.2	
PCC	M15	20/11/2019	18/12/2019	149.30 X 149.50 X 149.53	22321	8.460	398.3	17.8	

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TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2020-01-29-76 **Date: 27/11/2019**

: Improvements to Roads and Drains at Devappa Layout and surrounding area in Ward No.11 Kuvempunagara.

: Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

: BBMP/EE/BTP/WO/145/2019-20

: 22-11-19

: PCC

: 150X150X150 mm

: M15 / 7 Days Compressive Strength

: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 27/11/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
PCC	M15	20/11/2019	27/11/2019	149.13 X 150.22 X 149.95	22403	**8.445**	286.3	12.8	12.7
PCC	M15	20/11/2019	27/11/2019	149.87 X 149.91 X 150.02	22468	**8.892**	285.4	12.7	
PCC	M15	20/11/2019	27/11/2019	151.95 X 150.77 X 149.65	22909	**8.031**	289.4	12.6	

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Quality Manager

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****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

: **CP-2020-01-29-76** **Date: 18/12/2019**

: Improvements to Roads and Drains at Devappa Layout and surrounding area in Ward No.11 Kuvempunagara.

: Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

: BBMP/EE/BTP/WO/145/2019-20

: 22-11-19

: PCC

: 150X150X150 mm

: M15 / 28 Days Compressive Strength

: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 18/12/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
PCC	M15	20/11/2019	18/12/2019	151.40 X 150.62 X 149.79	22804	8.629	402.4	17.6	17.4
PCC	M15	20/11/2019	18/12/2019	150.81 X 149.01 X 149.54	22472	8.669	383.4	17.1	
PCC	M15	20/11/2019	18/12/2019	151.94 X 150.41 X 151.63	22853	8.460	400.2	17.5	

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****End of Report****

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TEST REPORT OF CEMENT CONCRETE CUBES

: **CP-2020-01-29-76** **Date: 27/11/2019**

: Improvements to Roads and Drains at Devappa Layout and surrounding area in Ward No.11 Kuvempunagara.

: Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

: BBMP/EE/BTP/WO/145/2019-20

: 22-11-19

: PCC

: 150X150X150 mm

: M15 / 7 Days Compressive Strength

: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 27/11/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
PCC	M15	20/11/2019	27/11/2019	151.50 X 150.28 X 149.75	22767	**8.445**	274.8	12.1	12.5
PCC	M15	20/11/2019	27/11/2019	150.83 X 151.08 X 149.59	22788	**8.892**	288.9	12.7	
PCC	M15	20/11/2019	27/11/2019	149.33 X 151.36 X 149.81	22602	**8.031**	286.7	12.7	

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TEST REPORT OF CEMENT CONCRETE CUBES

: **CP-2020-01-29-76** **Date: 18/12/2019**

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: Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

: BBMP/EE/BTP/WO/145/2019-20

: 22-11-19

: PCC

: 150X150X150 mm

: M15 / 28 Days Compressive Strength

: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 18/12/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
PCC	M15	20/11/2019	18/12/2019	150.45 X 151.11 X 151.54	22735	**8.629**	392.8	17.3	17.3
PCC	M15	20/11/2019	18/12/2019	151.13 X 150.82 X 151.32	22794	**8.669**	395.2	17.3	
PCC	M15	20/11/2019	18/12/2019	150.67 X 149.19 X *149.46*	22479	**8.460**	389.5	17.3	

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TEST REPORT OF CEMENT CONCRETE CUBES

: **CP-2020-01-29-76** **Date: 27/11/2019**

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: Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

: BBMP/EE/BTP/WO/145/2019-20

: 22-11-19

: PCC

: 150X150X150 mm

: M15 / 7 Days Compressive Strength

: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 27/11/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
PCC	M15	20/11/2019	27/11/2019	151.92 X 151.80 X 151.93	23061	**8.445**	279.3	12.1	12.6
PCC	M15	20/11/2019	27/11/2019	150.29 X 149.50 X 151.61	22468	**8.892**	288.6	12.8	
PCC	M15	20/11/2019	27/11/2019	151.61 X 149.32 X 149.24	22638	**8.031**	293.5	13.0	

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TEST REPORT OF CEMENT CONCRETE CUBES

: **CP-2020-01-29-76** **Date: 18/12/2019**

: Improvements to Roads and Drains at Devappa Layout and surrounding area in Ward No.11 Kuvempunagara.

: Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

: BBMP/EE/BTP/WO/145/2019-20

: 22-11-19

: PCC

: 150X150X150 mm

: M15 / 28 Days Compressive Strength

: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 18/12/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
PCC	M15	20/11/2019	18/12/2019	149.94 X 151.86 X 151.31	22771	**8.629**	395.2	17.4	17.6
PCC	M15	20/11/2019	18/12/2019	150.45 X 150.89 X 150.16	22701	**8.669**	402.8	17.7	
PCC	M15	20/11/2019	18/12/2019	149.10 X 150.26 X 150.93	22404	**8.460**	394.7	17.6	

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TEST REPORT OF CEMENT CONCRETE CUBES

: **CP-2020-01-29-76** **Date: 27/11/2019**

: Improvements to Roads and Drains at Devappa Layout and surrounding area in Ward No.11 Kuvempunagara.

: Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

: BBMP/EE/BTP/WO/145/2019-20

: 22-11-19

: PCC

: 150X150X150 mm

: M15 / 7 Days Compressive Strength

: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 27/11/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
PCC	M15	20/11/2019	27/11/2019	150.11 X 150.26 X 151.67	22555	**8.445**	283.1	12.6	12.5
PCC	M15	20/11/2019	27/11/2019	151.71 X 151.83 X 150.79	23034	**8.892**	281.3	12.2	
PCC	M15	20/11/2019	27/11/2019	149.84 X 151.50 X 149.63	22701	**8.031**	292.0	12.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

: **CP-2020-01-29-76** **Date: 18/12/2019**

: Improvements to Roads and Drains at Devappa Layout and surrounding area in Ward No.11 Kuvempunagara.

: Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

: BBMP/EE/BTP/WO/145/2019-20

: 22-11-19

: PCC

: 150X150X150 mm

: M15 / 28 Days Compressive Strength

: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 18/12/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
PCC	M15	20/11/2019	18/12/2019	150.42 X 151.17 X 149.47	22739	**8.629**	405.0	17.8	17.8
PCC	M15	20/11/2019	18/12/2019	149.54 X 150.63 X 150.71	22525	**8.669**	402.0	17.8	
PCC	M15	20/11/2019	18/12/2019	149.69 X 151.07 X 149.39	22614	**8.460**	397.9	17.6	

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

: *CP-2020-01-29-76* ***Date: 03/12/2019***

: *Improvements to Roads and Drains at Devappa Layout and surrounding area in Ward No.11 Kuvempunagara.*

: Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

: BBMP/EE/BTP/WO/145/2019-20

: 28-11-19

: Culvert Concrete

: 150X150X150 mm

: M20 / 7 Days Compressive Strength

: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 03/12/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Culvert Concrete	M20	26/11/2019	03/12/2019	151.26 X 150.07 X 151.73	22698	**8.232**	412.7	18.2	18.5
Culvert Concrete	M20	26/11/2019	03/12/2019	149.08 X 149.21 X 150.50	22245	**8.771**	414.3	18.6	
Culvert Concrete	M20	26/11/2019	03/12/2019	151.58 X 151.05 X 150.34	22897	**8.764**	429.5	18.8	

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2020-01-29-76 **Date: 24/12/2019**

: Improvements to Roads and Drains at Devappa Layout and surrounding area in Ward No.11 Kuvempunagara.

: Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Reference : BBMP/EE/BTP/WO/145/2019-20

: 28-11-19

: Culvert Concrete

Size : 150X150X150 mm

Age : M20 / 28 Days Compressive Strength

BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 24/12/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Culvert Concrete	M20	26/11/2019	24/12/2019	150.36 X 149.92 X 151.69	22542	**8.691**	534.6	23.7	23.1
Culvert Concrete	M20	26/11/2019	24/12/2019	149.35 X 151.59 X 151.54	22640	**8.515**	505.0	22.3	
Culvert Concrete	M20	26/11/2019	24/12/2019	149.72 X 149.75 X 150.19	22421	**8.086**	522.3	23.3	

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TEST REPORT OF CEMENT CONCRETE CUBES

: **CP-2020-01-29-76** **Date: 03/12/2019**

: Improvements to Roads and Drains at Devappa Layout and surrounding area in Ward No.11 Kuvempunagara.

: Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Reference : BBMP/EE/BTP/WO/145/2019-20

: 28-11-19

: Culvert Concrete

Size : 150X150X150 mm

: M20 / 7 Days Compressive Strength

BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 03/12/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
Concrete	M20	26/11/2019	03/12/2019	149.26 X 151.51 X 149.59	22614	**8.232**	415.8	18.4	18.6
Concrete	M20	26/11/2019	03/12/2019	149.66 X 150.52 X 151.05	22527	**8.771**	426.5	18.9	
Concrete	M20	26/11/2019	03/12/2019	150.38 X 150.66 X 150.46	22657	**8.764**	416.2	18.4	

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Quality Manager

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: **CP-2020-01-29-76** **Date: 24/12/2019**

: Improvements to Roads and Drains at Devappa Layout and surrounding area in Ward No.11 Kuvempunagara.

: Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Reference : BBMP/EE/BTP/WO/145/2019-20

Receipt : 28-11-19

ID : Culvert Concrete

Type /Size : 150X150X150 mm

grade/Age : M20 / 28 Days Compressive Strength

to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 24/12/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Culvert Concrete	M20	26/11/2019	24/12/2019	150.55 X 149.01 X 150.83	22433	**8.691**	522.2	23.3	23.1
Culvert Concrete	M20	26/11/2019	24/12/2019	151.64 X 149.81 X 149.35	22717	**8.515**	510.4	22.5	
Culvert Concrete	M20	26/11/2019	24/12/2019	151.07 X 150.01 X 149.71	22662	**8.086**	532.8	23.5	

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

: **CP-2020-01-29-76** **Date: 10/12/2019**

: Improvements to Roads and Drains at Devappa Layout and surrounding area in Ward No.11 Kuvempunagara.

: Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Reference : BBMP/EE/BTP/WO/145/2019-20

ipt : 05-12-19

ID : Cement Concrete Pavement

/Size : 150X150X150 mm

/Age : M30 / 7 Days Compressive Strength

BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 10/12/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement	M30	03/12/2019	10/12/2019	149.53 X 149.37 X 150.85	22335	**8.380**	559.8	25.1	25.2
Cement Concrete Pavement	M30	03/12/2019	10/12/2019	149.42 X 151.55 X 151.12	22645	**8.165**	595.0	26.3	
Cement Concrete Pavement	M30	03/12/2019	10/12/2019	149.81 X 150.11 X 151.28	22487	**8.046**	547.4	24.3	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

: **CP-2020-01-29-76** **Date: 31/12/2019**

Name : Improvements to Roads and Drains at Devappa Layout and surrounding area in Ward No.11 Kuvempunagara.

: Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

's Reference : BBMP/EE/BTP/WO/145/2019-20

Receipt : 05-12-19

ID : Cement Concrete Pavement

Type /Size : 150X150X150 mm

grade/Age : M30 / 28 Days Compressive Strength

to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Test : 31/12/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement	M30	03/12/2019	31/12/2019	151.07 X 149.94 X 151.09	22651	**8.113**	761.8	33.6	33.3
Cement Concrete Pavement	M30	03/12/2019	31/12/2019	149.46 X 151.79 X 150.68	22686	**8.066**	741.0	32.7	
Cement Concrete Pavement	M30	03/12/2019	31/12/2019	150.43 X 151.64 X 151.95	22811	**8.461**	766.9	33.6	

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: CP-2020-01-29-76 **Date: 10/12/2019**

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: Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Reference : BBMP/EE/BTP/WO/145/2019-20

: 05-12-19

: Cement Concrete Pavement

/Size : 150X150X150 mm

/Age : M30 / 7 Days Compressive Strength

BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 10/12/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
ment Concrete Pavement	M30	03/12/2019	10/12/2019	151.28 X 150.21 X 151.62	22724	**8.380**	575.3	25.3	25.5
ment Concrete Pavement	M30	03/12/2019	10/12/2019	151.77 X 151.51 X 151.99	22995	**8.165**	619.8	27.0	
ment Concrete Pavement	M30	03/12/2019	10/12/2019	149.78 X 149.04 X 150.47	22322	**8.046**	540.7	24.2	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

	:	**CP-2020-01-29-76** **Date: 31/12/2019**
Name	:	Improvements to Roads and Drains at Devappa Layout and surrounding area in Ward No.11 Kuvempunagara.
	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010
er's Reference	:	BBMP/EE/BTP/WO/145/2019-20
Receipt	:	05-12-19
er ID	:	Cement Concrete Pavement
Type /Size	:	150X150X150 mm
grade/Age	:	M30 / 28 Days Compressive Strength
nce to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
test	:	31/12/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement	M30	03/12/2019	31/12/2019	150.41 X 150.99 X 150.40	22710	**8.113**	757.5	33.4	33.1
Cement Concrete Pavement	M30	03/12/2019	31/12/2019	149.60 X 149.91 X 152.00	22425	**8.066**	723.8	32.3	
Cement Concrete Pavement	M30	03/12/2019	31/12/2019	150.32 X 151.06 X 149.62	22707	**8.461**	766.0	33.7	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2020-01-29-76 **Date: 10/12/2019**

Name : Improvements to Roads and Drains at Devappa Layout and surrounding area in Ward No.11 Kuvempunagara.

: Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

er's Reference : BBMP/EE/BTP/WO/145/2019-20

Receipt : 05-12-19

er ID : Cement Concrete Pavement

Type /Size : 150X150X150 mm

grade/Age : M30 / 7 Days Compressive Strength

ce to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

test : 10/12/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement	M30	03/12/2019	10/12/2019	149.32 X 151.08 X 150.52	22559	**8.380**	567.7	25.2	25.4
Cement Concrete Pavement	M30	03/12/2019	10/12/2019	149.84 X 150.36 X 149.26	22529	**8.165**	596.1	26.5	
Cement Concrete Pavement	M30	03/12/2019	10/12/2019	151.93 X 151.42 X 150.05	23004	**8.046**	563.0	24.5	

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TEST REPORT OF CEMENT CONCRETE CUBES

: **CP-2020-01-29-76** **Date: 31/12/2019**

Name : Improvements to Roads and Drains at Devappa Layout and surrounding area in Ward No.11 Kuvempunagara.

: Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

's Reference : BBMP/EE/BTP/WO/145/2019-20

Receipt : 05-12-19

ID : Cement Concrete Pavement

Type /Size : 150X150X150 mm

grade/Age : M30 / 28 Days Compressive Strength

nce to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

test : 31/12/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement	M30	03/12/2019	31/12/2019	149.18 X 149.79 X 149.81	22346	**8.113**	750.0	33.6	33.0
Cement Concrete Pavement	M30	03/12/2019	31/12/2019	151.46 X 150.53 X 150.48	22798	**8.066**	733.7	32.2	
Cement Concrete Pavement	M30	03/12/2019	31/12/2019	150.72 X 151.11 X 149.28	22775	**8.461**	755.9	33.2	

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TEST REPORT OF CEMENT CONCRETE CUBES

	:	**CP-2020-01-29-76** **Date: 12/12/2019**
Name	:	Improvements to Roads and Drains at Devappa Layout and surrounding area in Ward No.11 Kuvempunagara.
	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010
's Reference	:	BBMP/EE/BTP/WO/145/2019-20
Receipt	:	07-12-19
ID	:	Cement Concrete Pavement
Type /Size	:	150X150X150 mm
grade/Age	:	M30 / 7 Days Compressive Strength
to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
test	:	12/12/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement	M30	05/12/2019	12/12/2019	151.29 X 149.46 X 151.71	22611	**8.380**	581.9	25.7	25.7
Cement Concrete Pavement	M30	05/12/2019	12/12/2019	150.57 X 150.64 X 151.92	22683	**8.165**	604.9	26.7	
Cement Concrete Pavement	M30	05/12/2019	12/12/2019	151.06 X 149.87 X 151.18	22639	**8.046**	557.8	24.6	

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TEST REPORT OF CEMENT CONCRETE CUBES

ID	:	**CP-2020-01-29-76** **Date: 02/01/2020**
t Name	:	Improvements to Roads and Drains at Devappa Layout and surrounding area in Ward No.11 Kuvempunagara.
y	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010
mer's Reference	:	BBMP/EE/BTP/WO/145/2019-20
f Receipt	:	07-12-19
mer ID	:	Cement Concrete Pavement
e Type /Size	:	150X150X150 mm
e grade/Age	:	M30 / 28 Days Compressive Strength
nce to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
f test	:	02/01/2020

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement	M30	05/12/2019	02/01/2020	151.42 X 150.96 X 151.48	22858	**8.113**	758.3	33.2	32.9
Cement Concrete Pavement	M30	05/12/2019	02/01/2020	149.68 X 150.35 X 150.18	22504	**8.066**	724.2	32.2	
Cement Concrete Pavement	M30	05/12/2019	02/01/2020	150.97 X 150.61 X 151.83	22738	**8.461**	758.9	33.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

ID	:	**CP-2020-01-29-76** **Date: 12/12/2019**
ct Name	:	Improvements to Roads and Drains at Devappa Layout and surrounding area in Ward No.11 Kuvempunagara.
ncy	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010
mmer's Reference	:	BBMP/EE/BTP/WO/145/2019-20
e of Receipt	:	07-12-19
mmer ID	:	Cement Concrete Pavement
mple Type /Size	:	150X150X150 mm
mple grade/Age	:	M30 / 7 Days Compressive Strength
rence to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
e of test	:	12/12/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement	M30	05/12/2019	12/12/2019	150.87 X 151.25 X 150.52	22818	**8.380**	586.3	25.7	25.4
Cement Concrete Pavement	M30	05/12/2019	12/12/2019	150.05 X 151.11 X 150.43	22675	**8.165**	599.1	26.4	
Cement Concrete Pavement	M30	05/12/2019	12/12/2019	150.94 X 149.49 X 149.71	22564	**8.046**	543.7	24.1	

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TEST REPORT OF CEMENT CONCRETE CUBES

ID	:	**CP-2020-01-29-76** **Date: 02/01/2020**
ect Name	:	Improvements to Roads and Drains at Devappa Layout and surrounding area in Ward No.11 Kuvempunagara.
ncy	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010
tomer's Reference	:	BBMP/EE/BTP/WO/145/2019-20
e of Receipt	:	07-12-19
tomer ID	:	Cement Concrete Pavement
ple Type /Size	:	150X150X150 mm
ple grade/Age	:	M30 / 28 Days Compressive Strength
erence to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
e of test	:	02/01/2020

	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	05/12/2019	02/01/2020	149.43 X 151.33 X 151.35	22613	**8.113**	751.9	33.2	33.0
2	Cement Concrete Pavement	M30	05/12/2019	02/01/2020	149.16 X 149.77 X 150.18	22340	**8.066**	720.7	32.3	
3	Cement Concrete Pavement	M30	05/12/2019	02/01/2020	151.51 X 150.62 X 151.04	22820	**8.461**	761.4	33.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

D : **CP-2020-01-29-76** **Date: 12/12/2019**

ct Name : Improvements to Roads and Drains at Devappa Layout and surrounding area in Ward No.11 Kuvempunagara.

ncy : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

mer's Reference : BBMP/EE/BTP/WO/145/2019-20

e of Receipt : 07-12-19

mer ID : Cement Concrete Pavement

ple Type /Size : 150X150X150 mm

ple grade/Age : M30 / 7 Days Compressive Strength

rence to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

e of test : 12/12/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement	M30	05/12/2019	12/12/2019	151.91 X 149.23 X 150.50	22670	**8.380**	567.8	25.0	25.3
Cement Concrete Pavement	M30	05/12/2019	12/12/2019	149.99 X 149.94 X 150.25	22490	**8.165**	604.6	26.9	
Cement Concrete Pavement	M30	05/12/2019	12/12/2019	149.61 X 150.75 X 149.51	22555	**8.046**	542.6	24.1	

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